

Title: **Tender Technical Evaluation Strategy
for Dredging of High-Level and Low-Level
Ash Water Return Dams (As and When) at
Arnot Power Station**

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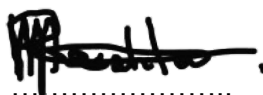
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1. INTRODUCTION

This document outlines the Tender Technical Evaluation Strategy for the appointment of a Service Provider to undertake dredging works at High-Level and Low-Level Ash Water Return Dams at Arnot Power Station (As and When) at Arnot Power Station. The evaluation will be conducted by the Technical Evaluation Team (TET) in accordance with the requirements and scope of work defined in Document **AEAP 0162**.

Arnot Power Station, located in Mpumalanga approximately 50 km east of Middelburg, operates under a Zero Liquid Effluent Discharge (ZLED) mandate. This requires the full containment and recycling of all effluent generated during power production, thereby preventing any discharge of potentially contaminated water into the external environment. It has, however, been identified that the High-Level and Low-Level Ash Water Return Dams have experienced a loss of storage capacity due to the accumulation of sludge.

In order to maintain compliance with ZLED requirements and restore the functional capacity of these dams, routine dredging of all associated dams is required. This includes the removal of accumulated sludge and the management of vegetation encroachment to ensure optimal hydraulic performance and continued environmental compliance. It is thus essential to procure the services of a suitably qualified Service Provider to execute these works, ensuring adherence to applicable environmental regulations, dam safety requirements, and operational standards.

2. SUPPORTING CLAUSES

2.1 SCOPE

The need to procure the services of a suitably qualified Service Provider for the dredging and cleaning of the High-Level and Low-Level Ash Water Return Dams at Arnot Power Station has been identified. This is driven by the loss of storage capacity due to sludge accumulation and the requirement to maintain compliance with the Zero Liquid Effluent Discharge (ZLED) mandate.

The objective is to appoint a competent Service Provider to restore the functional capacity of these containment systems and ensure ongoing environmental compliance.

This document outlines the Tender Technical Evaluation Strategy, which will guide the evaluation process undertaken by the Technical Evaluation Team (TET). The strategy defines the key elements against which tender submissions will be assessed, including:

- The important elements to which the TET will allocate scores to as part of evaluation process.
- The relevant TET members and their respective responsibilities.
- The foreseen acceptable and unacceptable risks and qualifications.

The technical evaluation framework comprises both mandatory and qualitative criteria aligned to the dredging and maintenance scope of work at Arnot Power Station. These criteria are intended to ensure that only suitably qualified and capable Service Providers are considered for appointment.

Once this Tender Technical Evaluation Strategy has been formally authorised, no amendments to the evaluation criteria shall be made without the appropriate approval in accordance with applicable governance requirements.

2.1.1 Purpose

The purpose of this tender technical evaluation strategy is to define the Mandatory Evaluation Criteria, Qualitative Evaluation Criteria and TET member responsibilities for tender technical evaluation. The technical evaluation strategy serves as basis for the tender technical evaluation process as defined by Auxiliary Engineering.

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The strategy shall ensure that a consistent, fair, transparent, impartial and auditable process is followed to identify the highest technically ranked tenderer.

2.1.2 Applicability

This document applies to all interested parties submitting tenders for the provision of dredging and cleaning services for the High-Level and Low-Level Ash Water Return Dams at Arnot Power Station, as detailed in Document **AEAP 0192**. All submissions will be evaluated in accordance with the criteria and processes defined in this document, with the objective of selecting the most suitable and capable Service Provider to execute the works.

2.2 NORMATIVE/INFORMATIVE REFERENCES

Parties using this document shall apply the most recent edition of the document(s) listed in the following paragraphs.

2.2.1 Normative

- [1] 240-168966153: Generation Tender Technical Evaluation Procedure
- [2] ISO 9001 Quality Management Systems
- [3] 240-78921684 Process Control Manual (PCM) for Source External Suppliers
- [4] 240-44682850 PCM - Provide Engineering During Project Sourcing
- [5] 32-1033 Eskom Procurement and Supply Chain Management Policy
- [6] 32-1034 Eskom Procurement and Supply Management Procedure

2.2.2 Informative

- [7] AEAP 0162: Scope of Works – Dredging of Seepage Dam, North Oil Trap and Final Station Recovery Dam at Arnot Power Station

2.3 DEFINITIONS

Abbreviation	Description
Contractor/Tenderer	The entity appointed to provide the services described in this Scope of Work.
Employer	Eskom Holdings SOC Ltd, specifically Arnot Power Station, as the entity requiring the services.
The Client	The end user will be Eskom who will be represented by Arnot Power Station throughout the duration of the Project.

2.3.1 Classification

Controlled Disclosure: Controlled Disclosure to external parties (either enforced by law, or discretionary).

2.4 ABBREVIATIONS

Abbreviation	Description
Arnot PS	Arnot Power Station

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When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

Abbreviation	Description
BoQ	Bill of Quantities
CIDB	Construction Industry Development Board
DFFE	Department of Forestry, Fisheries and the Environment
GNR	Government Notice Regulation
LC	Leachable Concentration
LCT	Leachable Concentration Threshold
NEMA	National Environmental Management Act 107 of 1998
NEMWA	National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008)
NQF	National Qualifications Framework
OHS Act	Occupational Health and Safety Act 85 of 1993
QA/QC	Quality Assurance / Quality Control
QCP	Quality Control Plan
SANAS	South African National Accreditation System
SANS	South African National Standards

2.5 ROLES AND RESPONSIBILITIES

Engineer: The Civil Engineer is responsible for the compilation of the tender technical evaluation strategy document.

Functional Responsibility: The Functional Responsible Person ensures that the document is fit for purpose before submitting for authorisation.

Engineering Manager: Performs a review of the document for alignment to business strategy, policy, objectives and requirements upon authorisation.

TET members: The delegated technical representatives responsible for the review and evaluation of the technical suitability of interested parties.

2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

Not Applicable.

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3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

The minimum weighted final score (threshold) required for a tenderer to be considered from a technical perspective is 80%.

Table 1: Qualitative Evaluation Criteria Scoring Table

Score	(%)	Definition
5	100	COMPLIANT - Meet technical requirement(s) AND; - No foreseen technical risk(s) in meeting technical requirements.
4	80	COMPLIANT WITH ASSOCIATED QUALIFICATIONS Meet technical requirement(s) with: - Acceptable technical risk(s) AND/OR; - Acceptable exceptions AND/OR; - Acceptable conditions.
2	40	NON-COMPLIANT Does not meet technical requirement(s) AND/OR; - Unacceptable technical risk(s) AND/OR; - Unacceptable exceptions AND/OR; - Unacceptable conditions.
0	0	TOTALLY DEFICIENT OR NON-RESPONSIVE
Note 1: The scoring table does not allow for scoring of 1 and 3. Note 2: Foreseen acceptable and unacceptable risk(s), exceptions and conditions shall be unambiguously defined in the relevant Tender Technical Evaluation Strategy.		

3.2 TET MEMBERS

Table 2: TET Members

TET number	TET Member Name	Designation
TET 1	Ayanda Tsitsa	Civil Engineer – Auxiliary Engineering
TET 1	Tebatso Menziwa	Civil Engineer – Auxiliary Engineering
TET 2	Vincent Tshabane	Senior Advisor – Operating Support
TET 3	Kabelo Magoro	Senior Advisor – Operating Support

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3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 3: Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	The Tenderer must be registered with the Construction Industry Development Board (CIDB) with a minimum grading designation of 6CE or higher, confirming adequate civil engineering capability to execute works of similar scale and complexity.	Tender Returnable – CIDB certificate 6CE or above.	This criterion ensures that the appointed Service Provider has the necessary capacity, experience, and resources to execute dredging works of similar nature to that outlined in Document AEAP 0192 scope of works document.

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 4: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
1.	Technical Proposal/Method Statement		30%	
1.1	Technical proposal/Method Statement: Provision of a detailed and comprehensive proposal/ methodology of how the bidder intends to execute and complete the scope of works detailed in Document AEAP 0192 across the contract duration.	The bidder must demonstrate an understanding of the terms of reference, clarity and conceptualization of the methodology. Project approach plan and broad methodologies in line with the criteria outlined under scope of works, with milestones and timeframes for each task to be completed. The method statement should clearly demonstrate the tenderer's full compliance with the scope of work. The following items must be clearly indicated in detail: 1. Understanding of the full dredging and desludging scope at the High-Level and Low-Level Ash Water Return Dams. 2. Bathymetric survey methodology 3. Execution approach for dredging under operational dam conditions. 4. Sequencing of works in line with water balance and operational constraints. 5. Detailed methodology for sludge removal, dredging, dewatering/dosing, and material handling. 6. Phased approach for mixed sludge conditions	30%	5 = 100% Fully compliant.
				4 = 80% Method statement submitted but not fully detailed.
				2 = 40% Method statement submitted but not fully detailed and with missing technical aspects.
				0 = 0% Totally deficient or non-responsive. None of the above items are included.

			7. Equipment selection and suitability (including amphibious excavation and pumping systems). 8. Method to control dredging depth and prevent over-excavation. 9. Transport, and disposal to licensed facilities. All technical deviations, foreseen risks and concerns to be clearly indicated.		
2.	Competencies			70%	
	2.1	Company experience	Pollution control dam dredging and waste disposal contracts/projects of similar scope and nature, indicating successful execution and completion by the bidder within the last 5 years. The bidder must submit evidence of completed projects or contracts and completion certificate with the following information: - Project Name and Client - Category of Dam (size, height, hazard potential) - Description of work performed - Project start and end dates - Name, designation, and contact number of contactable reference person - Proof of completion (certificate, pictures and profile) Description of work performed (description	30%	5 = 100% Completion certificates and information of five (5) or more previous relevant projects submitted. 4 = 80% Completion certificates and information of at least three (3) to four (4) previous relevant projects submitted. 2 = 40% Completion certificates and information of fewer than three (3) previous relevant projects submitted. 1 = 20% Completion certificates and information of fewer than two (2) previous relevant projects submitted.

			must be detailed enough to demonstrate that work performed on the project is similar in nature to the works required on this project). The services rendered or reports produced should be verifiable via a completion certificate or testimonial/letter of completion with contactable references.		0 = 0% Totally deficient or non-responsive
	2.2	Key Personnel and Project Organogram Qualified team including as a minimum: • Project / Site Manager: NQF Level 6 in Civil Engineering or equivalent; minimum 5 years' experience in dredging or dam-related civil works • Dredge Operator / Supervisor: Minimum 3 years' proven experience operating amphibious excavators or hydraulic dredging equipment • Environmental / Waste Compliance Officer: Experience in waste classification and NEMWA compliance; relevant qualification	The bidder should provide CVs and qualifications of key personnel with demonstrable experience /knowledge of dredging and disposal of waste from pollution control dams. Bidder is to provide proof of the involvement in the form of references on the specific reports/annexures to the reports. The references shall reflect the following: • Name of project and client; • Name, designation and contact number of contact person • Brief description of works and completion date. • Key components of the project team in the form of an organogram. This must reflect explicit information about the relevant capacity, capability, and experience of the team members. Team organogram, proof of qualifications, detailed CVs with traceable references, and relevant certificates.	20%	5 = 100% All key personnel on organogram; full CVs and qualifications submitted; all experience thresholds met or exceeded. 4 = 80% Most key personnel provided with CVs; minor gaps in experience levels 3 = 40% Key roles partially filled; CVs or qualifications missing for critical roles; experience significantly below requirements. 0 = 0% Totally deficient or non- responsive. No CVs or qualifications provided; key roles missing.

		• Safety Officer: SHE qualification (minimum NQF Level 5); minimum 3 years' practical construction safety experience; valid OHS Act competency.			
	2.3	Detailed Gantt chart / project programme including: • All major tasks and milestones (bathymetric survey, Phase 1 and Phase 2 dredging per dam, dewatering, waste disposal, rehabilitation). • Resource allocation per phase • Rain/weather days accounted for • Clear completion date • Critical path identified	Project programme showing a full schedule of activities and important milestones. Rain days and operational risks are accounted for. Completion date to be clearly indicated and achievable.	5%	5 = 100% Comprehensive programme submitted covering all phases, milestones, resources, rain days, and critical path. 4 = 60% Programme submitted with partial information e.g. resource allocation or rain day allowance missing. 2 = 20% Programme submitted but does not meet technical requirements – major tasks missing or unrealistic durations. 0 = 0% Totally deficient or non-responsive.
	2.4	Schedule of plant and equipment		10%	5 = 100% Schedule submitted with plant suitable for dredging when dams are in operation, dosing, excavation and haulage and pumping of sludge. 4 = 80% Schedule submitted with plant suitable for dredging when dams are in operation, excavation and haulage. 2 = 40%

					Schedule submitted with plant suitable for excavation and haulage.
					0 = 0% Totally deficient or non-responsive.
	2.5	Quality Control Plans (QCP) - Detailed QCPs for all critical dredging activities, including: • Step-by-step procedures with inspection/hold/witness points • Acceptance criteria for dredge depths, sludge quantities, and dewatering performance • Records management (dredging log, depth data, dates, volumes) • Non-conformance reporting process Compliance with ISO 9001 and Eskom Quality Management Policy.	Detailed QCP per AEAP 0192 Section 6 and Section 10. Eskom Engineer acceptance required prior to commencement.	5%	5 = 100% Fully compliant - comprehensive QCPs with hold/witness points, acceptance criteria, and records management for all activities. 4 = 60% QCPs submitted with acceptable minor gaps – e.g. some inspection points not clearly defined. 2 = 20% QCPs submitted but with major omissions – no hold points, missing acceptance criteria, or incomplete records plan. 0 = 0% Totally deficient or non-responsive.
TOTAL: 100					
		Minimum Threshold Required is 70%			
		Is the tenderer technically suitable? Yes/No			

3.5 TET MEMBER RESPONSIBILITIES

Table 4 identifies the TET members allocated to review/evaluate each Qualitative criterion.

Table 5: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET 4
CIDB Grading	X	X	X	X
Waste Transporter Registration	X	X	X	X
Licensed Waste Disposal Facility	X	X	X	X
Qualitative Criteria Number	TET 1	TET 2	TET 3	TET 4
Technical Proposal/Method Statement	X	X	X	X
Quality Control Plans (QCP)	X	X	X	X
Relevant experience of service provider	X	X	X	X
Schedule of plant and equipment	X	X	X	X
Key Personnel and Project Organogram	X	X	X	X
Detailed Gantt chart / project programme	X	X	X	X

X - Mandatory

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 6: Acceptable Technical Risks

Risk	Description
1.	Minor substitution of key personnel after award, provided replacements hold equivalent or higher qualifications and experience levels.
2.	Fewer than 5 completion certificates for similar projects, provided a minimum of 3 are submitted and supported by competent personnel and relevant equipment ownership.
3.	Method statement with minor procedural gaps where the overall approach is technically sound and approvable.

Table 7: Unacceptable Technical Risks

Risk	Description
1.	Absence of a valid CIDB 5CE registration or equivalent, or expired registration at time of tender.
2.	No demonstrated experience in dam dredging or desludging of containment/effluent dams.
3.	Proposed disposal to an unlicensed facility or failure to demonstrate compliance with GNR 634/635/636 waste classification requirements.
4.	Absence of a Safety Officer or failure to demonstrate compliance with OHS Act 85 of 1993.
5.	Unrealistic project duration that does not account for phased dredging, dewatering consolidation periods, or dam operational constraints.
6.	Methodology that proposes over-dredging below design levels or that would compromise dam structural integrity or foundations.

3.6.2 Exceptions / Conditions

Table 8: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	Minor deviation in dredging sequence between dams, subject to alignment with the water balance and approval by Auxiliary Engineering and the Engineer

Table 9: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	Tenderers technical submission does not address entire scope required.
2.	Any proposal to dispose of classified waste within the boundaries of Arnot Power Station without Employer approval and regulatory compliance.
3.	The technical proposal/method statement is generic, incomplete, and not tailored to address the specific project objectives, scope and constraints. It does not deal with the critical constraints and hazards of the project.
4.	Schedule of plant is not suitable for dredging when dams are in operation and for conditioning sludge.

4. AUTHORISATION

This document has been seen and accepted by:

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5. REVISIONS

Date	Rev.	Compiler	Remarks

6. DEVELOPMENT TEAM

The following people were involved in the development of this document:

- Ayanda Tsitsa

7. ACKNOWLEDGEMENTS

- N/A

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